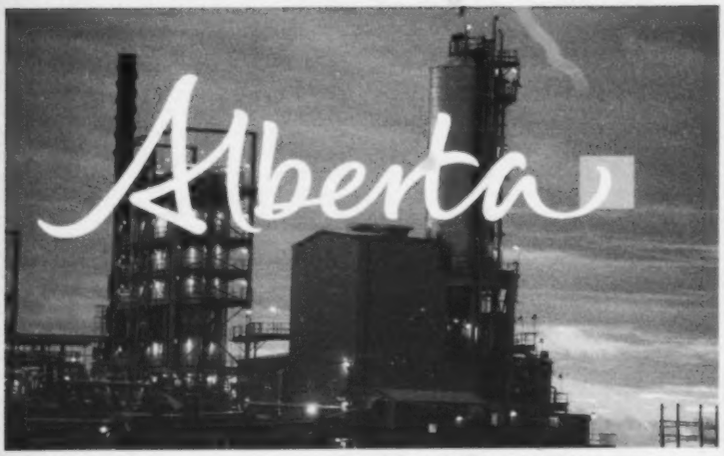
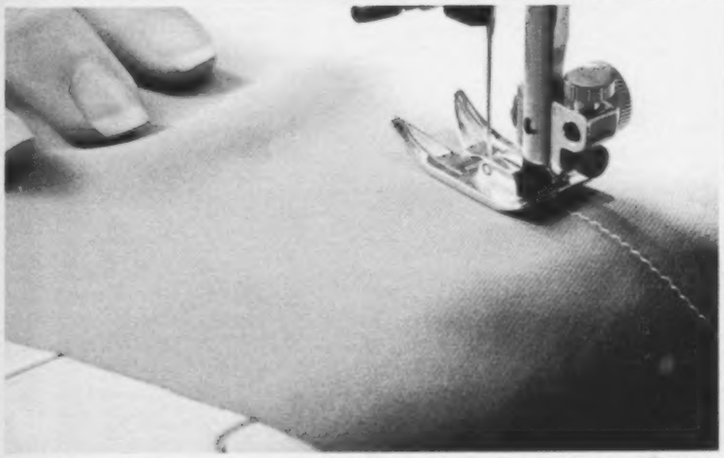
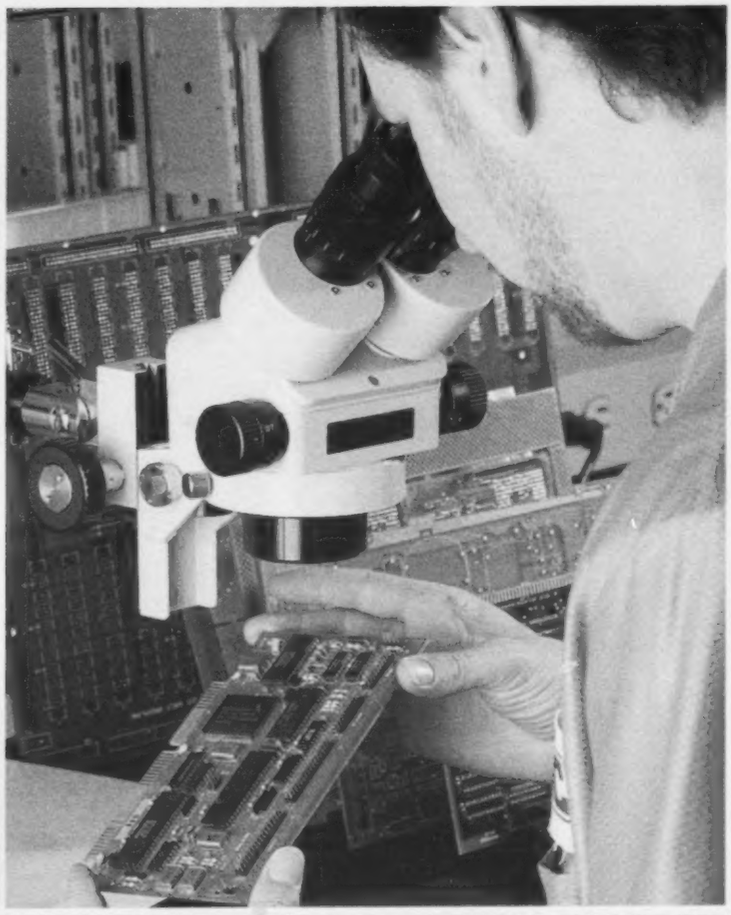






INDUSTRY PROFILES

Manufacturing Industry

July 2011

Government of Alberta
Employment and Immigration

Overview:

The Manufacturing industry[1] in Alberta includes establishments involved in:

- food manufacturing;
- beverage and tobacco product manufacturing;
- textile, textile product mills and clothing manufacturing;
- petroleum and coal products manufacturing;
- chemical, plastics and rubber manufacturing;
- computer and electronic products manufacturing; and
- other manufacturing.

Section A: Business Environment
1. 2010 Employment and Unemployment Numbers and Rates
2. Industry Growth
3. Size of Businesses in Alberta and the Industry
Section B: Human Resources Profile
1. Occupational Information
2. Demographics: Age and Gender
3. Wages
Section C: Additional Information
Links to Selected Industry Associations

[1] North American Industry Classification System (NAICS) groups 311 and 339

Section A: Business Environment

1. 2010 Employment and Unemployment Numbers and Rates:

	Alberta	Manufacturing Industry
Number of employed	2,016,600	124,600
Percent employed in the industry		6.2%
Number of unemployed	140,700	7,900
Unemployment rate	6.5%	6.0%

Data Source: Labour Force Historical Review 2010, Statistics Canada

For more information on employment numbers or for a historical comparison, please go to the Labour Force Statistics[2] or Statistics Canada[3] websites.

2. Industry Growth:

- Employment in the Manufacturing industry is expected to increase by an average of 1.1% annually from 2010 to 2013.

For more information, see the *Alberta Modified Canadian Occupational Projection System (COPS) Outlook 2009 – 2013, Industry Employment Outlook*[4] online and the Alberta Learning Information Service (ALIS)[5] website's industry descriptions.

[2] See http://www.employment.alberta.ca/BI/67.html
[3] See http://www.statcan.gc.ca
[4] See http://www.employment.alberta.ca/documents/LMI/LMI-LMF_2009-13_cops.pdf
[5] See http://www.alis.alberta.ca

Trends and Outlook

According to Statistics Canada's National Economic Accounts, the Manufacturing industry accounted for 8.0% of Alberta's Gross Domestic Product in 2010, down from 9.8% in 2000. Its share of Alberta's total employment decreased from 8.7% in 2000 to 6.2% in 2010.

Employment in 2010 was virtually unchanged from its level in 2009. Over the last ten years, employment decreased from 137,600 people in 2000 to 124,600 people in 2010.

According to *Alberta Occupational Demand Outlook 2011-2015*, employment growth in the following occupations is expected to exceed 2.7%, the average for all occupations: Supervisors in assembly and fabrication; Machine operators and related workers in fabric, fur and leather products manufacturing; Food, beverage and tobacco processing; Mechanical, electrical, electronics and other assemblers; and Labourers in processing and manufacturing. Employment growth in other occupations within this industry is expected to be below this average.

3. Size of Businesses in Alberta and the Industry:

Establishment Size	Alberta Businesses		Manufacturing Businesses	
	Number of Employees	%	Number of Employees	%
Less than 20 employees	605,200	36.2%	32,900	28.2%
20 to 99 employees	565,800	33.8%	40,900	35.0%
100 to 500 employees	309,300	18.5%	31,000	26.5%
Over 500 employees	193,200	11.5%	12,000	10.3%

Data Source: Labour Force Historical Review 2010, Statistics Canada

* Percentages may not add up to 100 due to rounding.

Note: Statistics Canada's survey methodology for determining establishment size differs from the one it uses in the Labour Force Survey to determine total employment. As a result, the total number of employees by establishment size will not be the same as total employment in the industry, except by coincidence.

Section B: Human Resources Profile

1. Occupational Information:

Some examples of occupations that can be found in the Manufacturing industry include:

- meat cutter;
- machinist;
- manufacturing engineer;
- sawmill machine operator; and
- instrument technician.

For a complete listing of all occupations related to this industry as well as detailed information on education and skill requirements, visit the Alberta Occupational Profiles[6] website.

2. Demographics: Age and Gender:

According to the Labour Force Survey, the gender breakdown in Alberta's manufacturing industry is as follows:

- women employed: 30,000 people, or 24.1%
- men employed: 94,600 people, or 75.9%

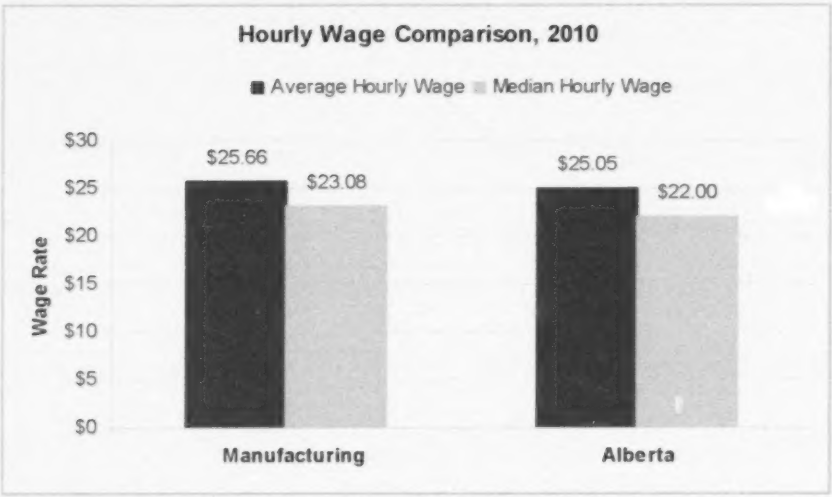
In Alberta, women accounted for 45.1% and men made up 54.9% of total employment.

Age Characteristics	Alberta Employees		Manufacturing Employees	
	Number	%	Number	%
15-24 years	314,500	15.6%	14,600	11.7%
25-54 years	1,381,500	68.5%	91,400	73.4%
55 years and over	320,600	15.9%	18,600	14.9%

Data Source: Labour Force Historical Review 2010, Statistics Canada

[6] See http://www.alis.alberta.ca/occinfo

3. Wages:



Data Source: Labour Force Historical Review 2010, Statistics Canada
Note: The average hourly wage is obtained by dividing the sum of the wages of all the employees by the total number of employees. The median hourly wage is that wage below which half the employees earn and above which half the employees earn.

Wage and Salary Information for Selected Occupations

Occupation	Average Hourly Wage			Average Annual Salary
	Starting Average	Overall Average	Top Average	
Industrial engineer	$ 36.69	$ 41.84	$ 51.13	$ 86,938
Manufacturing manager	$ 31.60	$ 40.32	$ 46.59	$ 84,807
Plastic products assembler, finisher and inspector	$ 10.50	$ 15.28	$ 19.51	$ 31,734
Industrial instrument technician and mechanic	$ 21.19	$ 29.15	$ 41.49	$ 60,583
Machinist	$ 20.62	$ 25.92	$ 31.88	$ 54,194

Data Source: 2009 Alberta Wage and Salary Survey

For more information on wages, refer to the WAGEinfo[7] webpage. For job descriptions, duties, required skills and education for specific occupations in the Manufacturing industry, visit the ALIS[8] website.

[7] See http://www.alis.alberta.ca/wageinfo
[8] See http://www.alis.alberta.ca

Section C: Additional Information

Links to Selected Industry Associations:

- Alberta Food Processors Association
  (http://www.afpa.com)
- Brewers Association of Canada
  (http://www.brewers.ca)
- Food Processors of Canada
  (http://foodnet.fic.ca)
- Canadian Poultry and Egg Processors Council
  (http://www.cpepc.ca)
- Alberta Forest Products Association
  (http://albertaforestproducts.ca)
- Canadian Plastics Industry Association
  (http://www.plastics.ca)
- Canadian Chemical Producers Association
  (http://www.ccpa.ca)
- Canadian Petroleum Products Institute
  (http://www.cppi.ca)
- Canadian Machinery and Metal Working Magazine
  (http://www.canadianmetalworking.com)
- Canadian Manufacturers and Exporters
  (http://www.cme-mec.ca)